(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 28 July 2005 (28.07.2005)

PCT

(10) International Publication Number WO 2005/068851 A1

(51) International Patent Classification7:

F16B 1/00

(21) International Application Number:

PCT/FI2005/000027

(22) International Filing Date: 18 January 2005 (18.01.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: U20040016

19 January 2004 (19.01.2004) FI

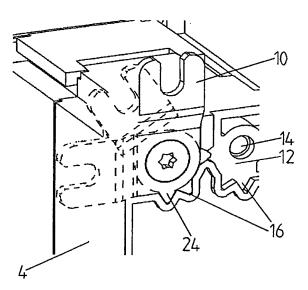
- (71) Applicant (for all designated States except US): ABB OY [FI/FI]; Strömbergintie 1, FI-00380 Helsinki (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MATTLAR, Harri [FI/FI]; Jungsundsvägen 809, FI-65760 Iskmo (FI). KOLMONEN, Rainer [FI/FI]; Urputie 3 as 1, FI-66400 Laihia (FI). SALO, Juho [FI/FI]; Huuhkajankatu 19 A 2, FI-65320 Vaasa (FI). PIKKALA, Osmo [FI/FI]; Kronvikintie 323, FI-65410 Sundom (FI). SUUTARINEN, Aki [FI/FI]; Pihkatie 12 A 5, FI-65320 Vaasa (FI). ALA-NEN, Jarkko [FI/FI]; Koukkuluomantie 301, FI-62375

Ylihärmä (FI). KAJAN, Risto [FI/FI]; Läntinen Pitkäkatu 7 B, FI-65380 Vaasa (FI).

- (74) Agent: KOLSTER OY AB; Iso Roobertinkatu 23, P.O. Box 148, FI-00121 Helsinki (FI).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: FASTENING ARRANGEMENT



(57) Abstract: The invention relates to a fastening arrangement for fastening a switching device to a mounting tray, the fastening arrangement comprising a fastening point (12) formed in the switching device or the like, and a lug (10) to be fastened to the fastening point (12). The fastening point comprises at least three recesses (16) to receive the protrusion (24) in the lug (10) in such a way that the lug (10) is optionally lockable, when being fastened to the switching device, to different positions defined by the recesses (16), one of the positions being a substantially vertical position, another being a substantially horizontal position, and the rest being positions at an angle between these positions.

Declarations under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR,

HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
 - of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.